

## PAGING METHOD AND APPARATUS

### ABSTRACT OF THE DISCLOSURE

10 A two-way paging system utilizes four local frequencies for transmissions between pager units (22) and a central control station (20). A first local frequency ( $f_1$ ) carries a local clock; a second local frequency ( $f_2$ ) carries communications packets from the central control station to paging units; a third local frequency ( $f_3$ ) carries communication packets from the pager units to the central control station; and a fourth local frequency ( $f_4$ ) carries a status or request signal from the paging units (22) to the central control station (20). Transmissions on the fourth local frequency ( $f_4$ ) are in accordance with a time divided slot allocation among pager units accessing the central control station (20). For a two-way paging system having a plurality of central control stations (420<sub>x</sub>) servicing a corresponding plurality of cells, a total of eight frequencies are utilized within any one cell. Four of the utilized frequencies are the local frequencies ( $f_1 - f_4$ ) [which may differ from cell to cell], and four of the utilized frequencies are lower power common frequencies or switching frequencies ( $C_1 - C_4$ ) which are used to switch or hand-off a pager unit (422) traveling from one cell to another.